



Purchasing Receipts

PO No	Supplier	Line Item No	Ref No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Serial No	Status	Receive Date	Price/Unit	Aging Days	Past Due
PO038986	MES002-VC	2	1	Net 30	M4140NR0 625	4140 Steel Round Bar 0.625" receive ft				8	2/20/2018	8	S044296	Stock	2/21/2018	\$ 5.70 / ft	0		
		3			M4140NR0 875	4140 Steel Round Bar 0.875" receive ft				20		20	S044297	Stock	2/21/2018	\$ 4.70 / ft	0		
		4			M4140CDB1.000x1.000	4140 Steel Bar 1.000 X 1.000 receive ft				6		6	S044298	Stock	2/21/2018	\$ 27.00 / ft	0		
		5			MT 4140-B-1.250X6.000	AISI 4140 Round Bar : Material: AISI 4140 STEEL BAR AS PER ASTM A29, AMS 6349, AMS 6382, AMS 6529, MIL-S-5626 MIN. ROCKWELL C = 28 RC MAX. ROCKWELL C = 32 RC NOTE: cut material in 12" length x 10 pcs					10		10	S044299	Stock	2/21/2018	\$ 68.60 / ft	0	
										Total:	44	44							

Plex 2/21/2018 2:19 PM Dart.Dubois.Pascal

METAUX SOLUTIONS INC
 2625 BOUL JACQUES CARTIER EST
 LONGUEUIL, QUEBEC
 J4N 1L7 Tel.: 450 641-3330

Shipping Order

20/02/2018

Order : 132578
Reference : 38986
Ship : PICK UP / PICK UP

Customer: 6323336

DART AEROSPACE LTD
 1270, ABERDEEN STREET
 HAWKESBURY, ONTARIO
 K6A 1K7

Ship To

Same

Tel.: 1 613 632-3336

Item No.	Description	Qty	Qty. Delivered	B/O Qty
SF14124HR	***** FACTURER E-MAIL ***** SUPER IMPORTANT SUR LE PACKING SLIP INSCRIRE LES HEAT N 304 STAIN FLA .25" X .500" HR 2 X 12.75' 15 X 13.08' 2 X 13.33' 6 X 13' HT;67736108			
MR5841H	4140 ROND .625" H.T 1 X 96" **** HT;75066727	8	8	0
MR7841H	4140 HT ROU .875" DIA 1 x 21.25' HT;75065013	21.25	21.25	0
MSQ141CD	4140 SQU 1.000 CD 1 X 72" HT;SA894555	6	6	0
MP11441H	4140 HTSR PLATE 1.250" THICK 10 X 6" X 12" HT;pm94492	280	280	0
SHIP JOURNEY COLLECT JP				

Shipping : _____
 Package No : _____
 Merchandise Received : _____

Ref. : _____

SC SEE



TRANSPORT EXPRESS MINIMAX TRANSPORTATION INC.
P.O. BOX 92, CORNWALL, ONTARIO K6H 5R9
1-800-465-6657

DELIVERY RECEIPT
REÇU DE LIVRAISON

DATE 02-20-2018	TRAILER - REMORQUE 758	ORIG. COR	DEST. COR	NIR R-519336	CVOR 3104-372-613	PRO. 1624128
SHIPPER / EXPÉDITEUR METAUX SOLUTIONS 2625 BOUL JACQUES CARTIER E LONGUEUIL, QC J4M 1L7 (450) 641-3330			CONSIGNEE / CONSIGNATAIRE DART AEROSPACE 1270 ABERDEEN ST HAWKESBURY, ON K1A 1K7 (613) 632-5200			CODE 0  GST / TPS: R 126922954 QST / TVQ: 1010859073
JCT	ORIG. CARRIER / REÇU DE PRO			JCT	TRANSFER TO / TRANSFERT À	
PCS	TYPE	DESCRIPTION			WEIGHT / POIDS	
3	SKID	D STC HELICOPTER PARTS 1 CRATE @ 141X7X6, 1 CRATE @ 159X7X6, @ 32X15X8			812L	B/L PB20143589
TOTAL 3	DECLARED VALUE / VALEUR DÉCLARÉE 0	DRIVER / CHAUFFEUR		DATE	812L	P.O.

BILL TO:
JOURNEY FREIGHT
18100 TRANSCANADA
KIRKLAND, QC



REC. _____ PCS DATE _____
BY / PAR
ANY LOSS OR DAMAGE MUST BE NOTED ON PROBILL AT TIME OF DELIVERY.
TOUSSES PERTES OU DOMMAGES DOIVENT ÊTRE SIGNALÉE AU MOMENT DE LA LIVRAISON.

PCS	UNIT	IN / ENTRÉE	OUT / SORTIE	CPC	RETURN
				C.O.D. C.R.	
				C.O.D. FEE FRAIS DE C.R.	
				TOTAL ►	

15K947

METAUX SOLUTIONS INC
 2625 BOUL JACQUES CARTIER EST
 LONGUEUIL, QUEBEC
 J4N 1L7 Tel.: 450 641-3330

Shipping Order

20/02/2018

Order : 132578
Reference : 38986
Ship : PICK UP / PICK UP

Customer: 6323336

DART AEROSPACE LTD
 1270, ABERDEEN STREET
 HAWKESBURY, ONTARIO
 K6A 1K7

Ship To

Same

Tel.: 1 613 632-3336

<i>Item No.</i>	<i>Description</i>	<i>Qty</i>	<i>Qty. Delive</i>	<i>B/O Qty</i>
SF14124HR	***** FACTURER E-MAIL ***** SUPER IMPORTANT SUR LE PACKING SLIP INSCRIRE LES HEAT N 304 STAIN FLA .25" X .500" HR 2 X 12.75' 15 X 13.08' 2 X 13.33' 6 X 13' HT;67736108			
MR5841H	4140 ROND .625" H.T 1 X 96" **** HT;75066727	8	8	0
MR7841H	4140 HT ROU .875" DIA 1 x 21.25' HT;75065013	21.25	21.25	0
MSQ141CD	4140 SQU 1.000 CD 1 X 72" HT;SA894555	6	6	0
MP11441H	4140 HTSR PLATE 1.250" THICK 10 X 6" X 12" HT;pm94492	280	280	0

SHIP JOURNEY COLLECT
 JP

1624128

Shipping : _____
Package No : _____
Merchandise Received : _____

Ref. : _____

15krd

METAUX SOLUTIONS INC
2625 BOUL JACQUES CARTIER EST
LONGUEUIL, QUEBEC
J4N 1L7 Tel. : 450 641-3330

Shipping Order

20/02/2018

Order : 132669
Reference : 39020
Ship : PICK UP / PICK UP

Customer: 6323336

DART AEROSPACE LTD
1270, ABERDEEN STREET
HAWKESBURY, ONTARIO
K6A 1K7

Ship To

Same

Tel.: 1 613 632-3336

Item No.	Description	Qty	Qty. Delive <i>r</i>	B/O Qty
TP12A2	***** FACTURER E-MAIL ***** SUPER IMPORTANT SUR LE PACKING SLIP INSCRIRE LES HEAT N A-2 PLATE TFA 1/2" THICK 9 X 1.25" -0+.+ X 140" R/L HT;PM83806	246	246	0

ASAS ASAP ASAP

SHIP JOURNEY COLLECT

Shipping : _____
Package No : _____
Merchandise Received : _____

Ref. : _____

METAUX SOLUTIONS INC
 2625 BOUL JACQUES CARTIER EST
 LONGUEUIL, QUEBEC
 J4N 1L7 Tel.: 450 641-3330

Shipping Order

20/02/2018

<i>Order</i>	:	132578
<i>Reference</i>	:	38986
<i>Ship</i>	:	PICK UP / PICK UP

Customer: 6323336

DART AEROSPACE LTD
 1270, ABERDEEN STREET
 HAWKESBURY, ONTARIO
 K6A 1K7

Ship To

Same

Tel.: 1 613 632-3336

<i>Item No.</i>	<i>Description</i>	<i>Qty</i>	<i>Qty. Delive</i>	<i>B/O Qty</i>
SF14124HR	***** FACTURER E-MAIL ***** SUPER IMPORTANT SUR LE PACKING SLIP INSCRIRE LES HEAT N 304 STAIN FLA .25" X .500" HR 2 X 12.75' 15 X 13.08' 2 X 13.33' 6 X 13' HT;67736108			
MR5841H	4140 ROND .625" H.T 1 X 96" ***** HT;75066727	8	8	0
MR7841H	4140 HT ROU .875" DIA 1 x 21.25' HT;75065013	21.25	21.25	0
MSQ141CD	4140 SQU 1.000 CD 1 X 72" HT;SA894555	6	6	0
MP11441H	4140 HTSR PLATE 1.250" THICK 10 X 6" X 12" HT;pm94492	280	280	0

SHIP JOURNEY COLLECT

JP

Shipping : _____
Package No : _____
Merchandise Received: _____

Ref. : _____

METAUX SOLUTIONS INC
2625 BOUL JACQUES CARTIER EST
LONGUEUIL, QUEBEC
J4N 1L7 Tel.: 450 641-3330

Shipping Order

20/02/2018

Order : 132578
Reference : 38986
Ship : PICK UP / PICK UP

Customer: 6323336

Ship To

DART AEROSPACE LTD
1270, ABERDEEN STREET
HAWKESBURY, ONTARIO
K6A 1K7

Same

Tel.: 1 613 632-3336

Item No.	Description	Qty	Qty. Delivered	B/O Qty
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MR5841H	4140 ROND .625" H.T 1 X 96" ***** HT;75066727	8	8	0
MR7841H	4140 HT ROU .875" DIA 1 x 21.25' HT;75065013	21.25	21.25	0
MSQ141CD	4140 SQU 1.000 CD 1 X 72" HT;SA894555	6	6	0
MP11441H	4140 HTSR PLATE 1.250" THICK 10 X 6" X 12" HT;pm94492	280	280	0

SHIP JOURNEY COLLECT

JP

Shipping : _____

Ref. : _____

Package No. : _____

Merchandise Received: _____

Chantal Lavoie

From: Jérôme Primeau <j.primeau@metauxsolutions.com>
Sent: Tuesday, February 06, 2018 9:03 AM
To: Chantal Lavoie
Subject: RE: quote

Voir plus bas

5/7 jours

De : Chantal Lavoie [mailto:clavoie@dartaero.com]
Envoyé : Monday, February 5, 2018 10:58 AM
À : Jérôme Primeau <j.primeau@metauxsolutions.com>
Objet : quote

Good morning Jerome,
Please advise price and delivery on mat'l.

~~303 bar 1" x 3" x 24 ft 74.90\$/ft~~
~~303 bar 1" x 1" x 24 ft 24.25\$/ft~~

~~304 bar 1" x 2.5" x 12 ft 36.15\$/ft~~
~~304 bar 2.5" x 2.5" x 12 ft 86.95\$/ft~~
~~304 bar 0.625" x 4" x 4 ft 225.00\$/pc~~ 54.25.

~~4140 H round bar 1.375" x 8 ft ht only 9.75\$/ft~~

~~4140n round bar 0.625" x 8 ft ht only 5.70\$/ft~~
~~4140n round bar 0.875" x 8 ft ht and 20' only 4.70\$/ft~~

~~303 round bar 0.250" x 12 ft 304 only .95\$/ft~~

~~1018 round bar 1" x 12 ft 4.50\$/ft~~

~~4140 cd bar 1" x 1" x 6 ft 27.00\$/ft~~ 162.00

~~4140 qt round bar 1" x 8 ft ht only 6.25\$/ft~~
~~4140 qt round bar 0.625" x 8 ft ht only 5.70\$/ft~~

~~4140 bar 1" x 6.250" x 4 ft 285.20\$/pc~~ 71.30

~~A513 round tubing 0.750" x 0.085" x 20 ft offer .095" wall 3.25\$/ft~~

~~4140 bar cut to size 6" x 12" x 1.250" thick x 3 pcs 68.60\$/ea~~

Bronze round bar 2.250" x 2 ft (630 spec's) will get back for both
Bronze 2.5" x 2 ft (630 spec's)

Thanks

Bid

05/02/2018

25889

METAUX SOLUTIONS INC
2625 BOUL JACQUES CARTIER EST
LONGUEUIL, QUEBEC
J4N 1L7 **Tel.** : 450 641-3330

Sales Rep. : JEROME PRIMEAU
Reference : chantal
Expiration Date : 06/05/2018

Customer: 6323336

DART AEROSPACE LTD
1270, ABERDEEN STREET
HAWKESBURY, ONTARIO
K6A 1K7

Ship To :

Same

Tel.: 1 613 632-3336

Item No.	Description	Qty	Price	Total	Tx
***** FACTURER E-MAIL ***** SUPER IMPORTANT SUR LE PACKING SLIP INSCRIRE LES HEAT N					
MP141H	4140 HTSR PLATE 1.00" THICK 1 x 6.25" x 72"	138	2.45	338.10	A
MP5841H	4140 HTSR TFA PLATE .625" P.M. 1 x 3" x 72"	44	3.10	136.40	A
MR384130	4130 .375 DIAM 1 X 12' 5/7 JOURS	12	15.10	181.20	A
SR144	304 ROU .250 DIA 1 X 12' PAS DE 303	12	1.80	21.60	A
TR134O1	O-1 TFA TO FIN 1.750 RD 1 X 72"	50	2.85	142.50	A
TR1O1	O-1 TFA TO FIN 1 RD 1 X 725"	18	2.85	51.30	A
MR51641H	4140HT ROU .312 DIA. REGRET				
MR3841H	4140 HTSR .375" DIA 1 X 12'	12	5.85	70.20	A
MR11441H	4140 HTSR ROU 1.250 DIA 1 X 12'	12	8.65	103.80	A
MR31241H	4140 HTSR ROU 3.500 DIA 1 X 72"	6	68.35	410.10	A

3/4 JOURS

A) Regist :

Subtotal 1 455.20
HST : 189.18

Total : 1 644.38



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER
PO038986

Supplier:	MES002-VC Metaux Solutions 2625 boul Jacques-Cartier Est Longueuil QC J4N 1L7 Canada Phone: 800 558 8858 Fax: 514 633 8044
Ship To:	1270 Aberdeen Street Hawkesbury ON K6A 1K7 Canada Phone: 613-632-5200

PO No: PO038986
PO Date: 2/8/18
Due Date: 2/20/18
Purchase Order Revision:
Revision Date:
Ship-To Contact: Lacelle, Linda Phone: llacelle@dartaero.com
Via: Ground
Pymt Terms: Net 30
Freight Terms:
Special Comments:

E-MAILED

FEB 08 2018

Items

Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	M304B0.250x0.500		304 Bar .250 X .500 : MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE AS PER ASTM A276 OR ASTM A240 NOTE: AISI 303 NOT ACCEPTABLE receive ft	Firmed	2/20/18	300 pcs	0 pcs	300 pcs	\$4.25/pcs	\$1,275.00
2	M4140NR0.625		4140 Steel Round Bar 0.625" receive ft	Firmed	2/20/18	8 ft	8 ft	0 ft	\$5.70/ft	\$45.60
3	M4140NR0.875		4140 Steel Round Bar 0.875" receive ft	Firmed	2/20/18	20 ft	20 ft	0 ft	\$4.70/ft	\$94.00
4	M4140CDB1.000x1.000		4140 Steel Bar 1.000 X 1.000 receive ft	Firmed	2/20/18	6 ft	6 ft	0 ft	\$27.00/ft	\$162.00
5	MT-4140-B-1.250X6.000		AISI 4140 Round Bar : Material: AISI 4140 STEEL BAR AS PER ASTM A29, AMS 6349, AMS 6382, AMS 6529, MIL-S-5626 MIN. ROCKWELL C = 28 RC MAX. ROCKWELL C = 32 RC NOTE: cut material in 12" length x 10 pcs	Firmed	2/20/18	10 ft	10 ft	0 ft	\$68.60/ft	\$686.00

Grand Total: \$2,262.60

Order Notes

Order Notes

Procurement Quality Clauses

- A005 right of entry
- A012 chemical and physical test report
- A016 personnel qualification
- A017 raw material identification (as applicable)
- A026 certification of material conformance
- A041 quality management system
- A042 dart notification by supplier
- A043 retention of quality documents

- A048 counterfeit parts avoidance, detection, mitigation and disposition program

- A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 2/8/18 10:37 AM *dart.lacelle.linda*

2/8/2018

PURCHASE ORDER



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER
PO038986

Supplier:	MES002-VC Metaux Solutions 2625 boul Jacques-Cartier Est Longueuil QC J4N 1L7 Canada Phone: 800 558 8858 Fax: 514 633 8044	PO No:	PO038986
		PO Date:	2/8/18
		Due Date:	2/20/18
		Purchase Order Revision:	
		Revision Date:	
		Ship-To Contact:	Lacelle, Linda Phone: llacelle@dartaero.com
Ship To:	1270 Aberdeen Street Hawkesbury ON K6A 1K7 Canada Phone: 613-632-5200	Via:	Ground
		Pymt Terms:	Net 30
		Freight Terms:	
		Special Comments:	

Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	M304B0.250x0.500		304 Bar .250 X .500 : MATERIAL: AISI 304/316 SS BAR OR AISI 304/316 SS PLATE AS PER ASTM A276 OR ASTM A240 NOTE: AISI 303 NOT ACCEPTABLE receive ft	Firmed	2/20/18	300 pcs	0 pcs	300 pcs	\$4.25/pcs	\$1,275.00
2	M4140NR0.625		4140 Steel Round Bar 0.625" receive ft	Firmed	2/20/18	8 ft	0 ft	8 ft	\$5.70/ft	\$45.60
3	M4140NR0.875		4140 Steel Round Bar 0.875" receive ft	Firmed	2/20/18	20 ft	0 ft	20 ft	\$4.70/ft	\$94.00
4	M4140CDB1.000x1.000		4140 Steel Bar 1.000 X 1.000 receive ft	Firmed	2/20/18	6 ft	0 ft	6 ft	\$27.00/ft	\$162.00
5	MT-4140-B- 1.250X6.000		AISI 4140 Round Bar : Material: AISI 4140 STEEL BAR AS PER ASTM A29, AMS 6349, AMS 6382, AMS 6529, MIL-S-5626 MIN. ROCKWELL C = 28 RC MAX. ROCKWELL C = 32 RC	Firmed	2/20/18	10 ft	0 ft	10 ft	\$68.60/ft	\$686.00

NOTE: cut material in
12" length x 10 pcs

Grand Total: \$2,262.60

Order Notes

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-4140-B-1.250x6.000
 DATE: FEB 21 2018

PO / BATCH NO.: 088986/5044299

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 10
 QUANTITY INSPECTED: 10
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.250
 THICKNESS RECEIVED: 1.250
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORROSION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y <input type="radio"/> N	<u>Astm-A-829</u>
CORRECT THICKNESS	<input checked="" type="radio"/> Y <input type="radio"/> N	
PHOTO REQUIRED	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y <input type="radio"/> N	<u>Heat # Pmg94492</u>
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y <input type="radio"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="radio"/> Y <input type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="radio"/> Y <input type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>DAS</u> <u>11</u> <u>9-80</u>	SIGNED OFF BY: _____	DATE: _____
DATE: <u>FEB 21 2018</u>		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

REV.	DESCRIPTION	EON #	DATE	BY	APPROVED
A	NEW ISSUE	18-544	18.2.13	VM	ML

PURCHASE MATERIAL : AISI 4140 / 4142 STEEL SHEET OR PLATE

MINIMUM ROCKWELL C = 28 RC

MAXIMUM ROCKWELL C = 32 RC

SPECIFICATION: *MJ* ASTM A829, AMS 6395

PART NUMBER:

MT-4140-S-[T].[TTT]x[W.WWW]
WHERE "T.[TTT]" = THICKNESS IN INCHES
WHERE "W.WWW" = WIDTH IN INCHES (OPTIONAL FOR SPECIFYING CUT PLATE)

EX. 0.063" THICK SHEET = MT-4140-S-0.063
EX. 3.5" WIDE BY 0.500" THICK PLATE = MT-4140-S-0.500X3.500

A	<div style="border-bottom: 1px solid black; margin-bottom: 10px;"> DART AEROSPACE Head Office, Ottawa, Canada </div> <div style="border-bottom: 1px solid black; margin-bottom: 10px;"> TITLE AISI 4140 / 4142 STEEL SHEET OR PLATE </div> <div style="border-bottom: 1px solid black; margin-bottom: 10px;"> PART NO. MT-4140-S </div> <div style="border-bottom: 1px solid black; margin-bottom: 10px;"> PART NO. MT-4140-S </div> <div style="border-bottom: 1px solid black; margin-bottom: 10px;"> INITIALS AND DATE DEIGNED BY: VM 2/13/2018 DRAWN BY: VM 02/13/2018 CHECKED BY: VM 02/13/2018 ME REV'D BY: DO 02/13/2018 APPROVED BY: ML 02/14/2018 </div> <div style="border-bottom: 1px solid black; margin-bottom: 10px;"> SCALE: MTS NOTE: DRAWN TO 2016 BY DART AEROSPACE LTD <small>THIS DOCUMENT IS THE PROPERTY OF DART AEROSPACE LTD. IT CONTAINS TRADE SECRET AND/OR CONFIDENTIAL INFORMATION OF DART AEROSPACE LTD. IT MAY NOT BE COPIED OR DISCLOSED TO ANYONE EXCEPT THOSE EMPLOYEES WHO NEED IT FOR THEIR DUTIES AT DART AEROSPACE LTD.</small> </div>	B C D
8	7	6
7	5	4
6	3	2
5	1	1
4		
3		
2		
1		

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M4140CDB1.000x1.000
 DATE: FEB 21 2018

PO / BATCH NO.: 038986/5044298

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 6
 QUANTITY INSPECTED: 6
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.000
 THICKNESS RECEIVED: 1.000
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORROSION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y <input type="radio"/> N	<i>Astm A29 as per A108</i>
CORRECT THICKNESS	<input checked="" type="radio"/> Y <input type="radio"/> N	
PHOTO REQUIRED	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y <input type="radio"/> N	<i>Heat # S4874555</i>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT MM# ON THE MATERIAL	<input checked="" type="radio"/> Y <input type="radio"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="radio"/> Y <input type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="radio"/> Y <input type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> <u>11</u>	SIGNED OFF BY: _____
DATE: <u>9-89</u> <u>FEB 21 2018</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

REV.	DESCRIPTION	ECN #	DATE	BY	APPROVED
A	NEW ISSUE	17-790	17.12.13	VM	ML
B	MIN & MAX RCHANGED	18-523	18.01.24	VM	ML
C	ADD AISI 4142	18-544	18.02.14	ML	ML

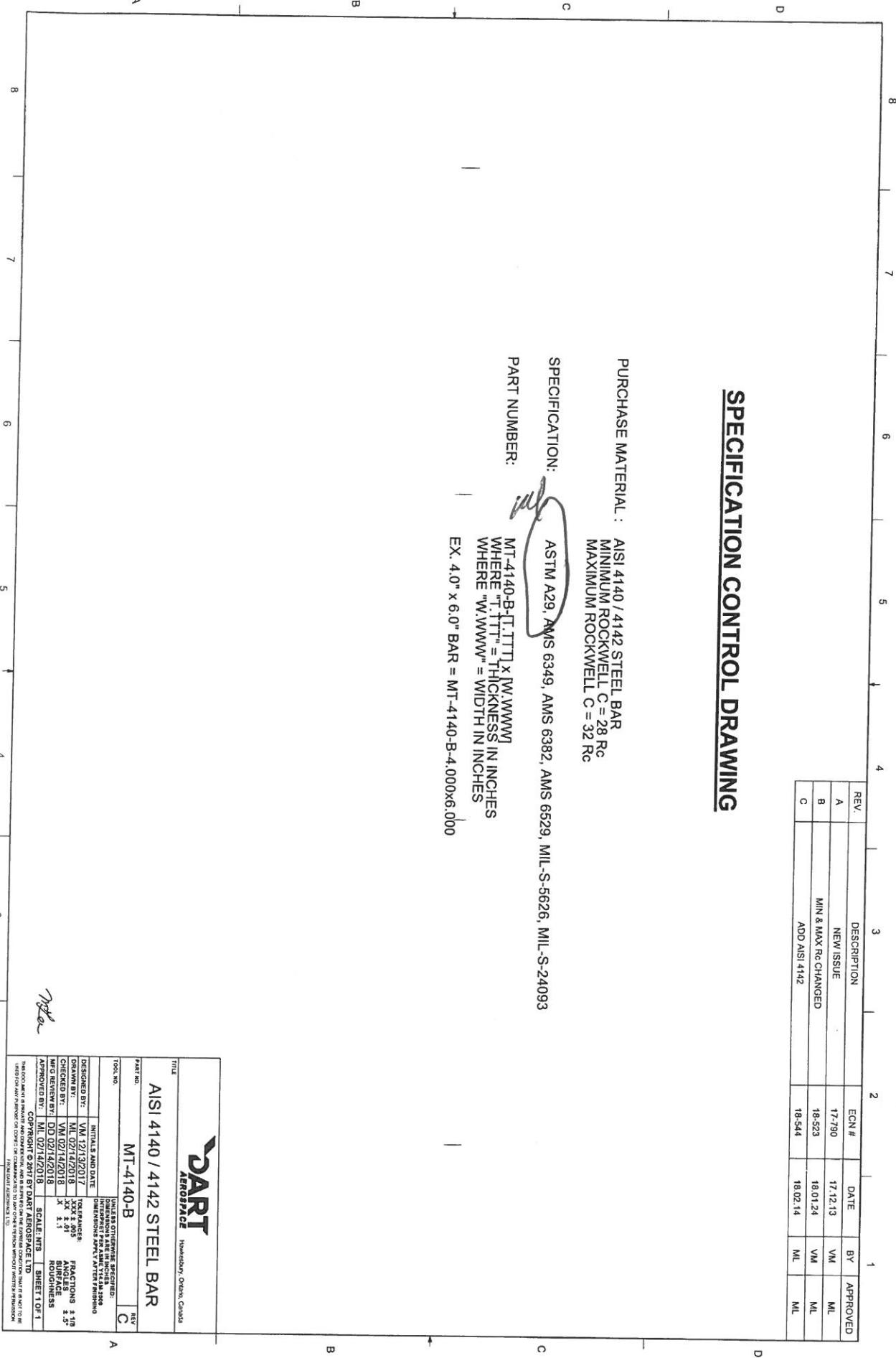
PURCHASE MATERIAL: AISI 4140 / 4142 STEEL BAR
MINIMUM ROCKWELL C = 28 RC
MAXIMUM ROCKWELL C = 32 RC

SPECIFICATION: *[Signature]* ASTM A29, AMS 6349, AMS 6382, AMS 6529, MIL-S-5626, MIL-S-24093

PART NUMBER: MT-4140-B-[T].[TTT][W.WWW]
WHERE "T" = THICKNESS IN INCHES
WHERE "W.WWW" = WIDTH IN INCHES

EX. 4.0" x 6.0" BAR = MT-4140-B-4.000x6.000

 AEROSPACE Newmarket, Ontario, Canada	
TITLE	
AISI 4140 / 4142 STEEL BAR	
PART NO:	
MT-4140-B	
TOOL NO.	REV
	C
INITIALS AND DATE	
DESIGNED BY:	VM 12/13/2017
DRAWN BY:	VM 02/14/2018
CHECKED BY:	VM 02/14/2018
MEG REVIEW BY:	DO 02/14/2018
APPROVED BY:	ML 02/14/2018
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MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M41401R0.875
 DATE: FEB 21 2018

PO / BATCH NO.: 038986/6044287

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 20
 QUANTITY INSPECTED: 20
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.875
 THICKNESS RECEIVED: 0.875
 SHEET SIZE ORDERED: 11A
 SHEET SIZE RECEIVED: 11A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORROSION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y <input type="radio"/> N	<i>Action A29</i>
CORRECT THICKNESS	<input checked="" type="radio"/> Y <input type="radio"/> N	
PHOTO REQUIRED	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y <input type="radio"/> N	<i>Heat # 25065013</i>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y <input type="radio"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="radio"/> Y <input type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="radio"/> Y <input type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> <u>11</u> <u>9-89</u>		SIGNED OFF BY: _____
DATE: <u>FEB 21 2018</u>		DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M4140NRO-625
 DATE: FEB 21 2018

PO / BATCH NO.: 038986/5044286

MATERIAL CERT REC'D: Yes
 QUANTITY RECEIVED: 8
 QUANTITY INSPECTED: 8
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.625
 THICKNESS RECEIVED: 0.625
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT FINISH	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORROSION	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT GRAIN DIRECTION	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT MATERIAL PER M-DRAWING	Y <input checked="" type="radio"/> N <input type="radio"/>	ASTM A39 after A108
CORRECT THICKNESS	Y <input checked="" type="radio"/> N <input type="radio"/>	
PHOTO REQUIRED	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT REF # TO LINK CERT	Y <input checked="" type="radio"/> N <input type="radio"/>	Heat # HT 75066727
CORRECT MATERIAL IDENTIFICATION	Y <input checked="" type="radio"/> N <input type="radio"/>	
CORRECT M# ON THE MATERIAL	Y <input checked="" type="radio"/> N <input type="radio"/>	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y <input checked="" type="radio"/> N <input type="radio"/>	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y <input checked="" type="radio"/> N <input type="radio"/>	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

testers located in the Quality Office

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>Das</u> <u>11</u>		SIGNED OFF BY: _____
DATE: <u>9-89 FEB 21 2018</u>		DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL : AISI 4140 / 4142 STEEL BAR

MINIMUM ROCKWELL C = 28 RC
MAXIMUM ROCKWELL C = 32 RC

SPECIFICATION:

M
 MT-4140-B-[T.TTT]X[W.WWW]
 WHERE "T.TTT" = THICKNESS IN INCHES
 WHERE "W.WWW" = WIDTH IN INCHES

EX. 4.0" x 6.0" BAR = MT-4140-B-4.000x6.000

PART NUMBER:

	REV.	DESCRIPTION	ECN #	DATE	BY	APPROVED
A		NEW ISSUE	17-790	17/12/13	V/M	ML
B		MIN & MAX RE-CHANGED	18-523	18/01/24	V/M	ML
C		ADD AISI 4142	18-544	18/02/14	ML	ML

DART AEROSPACE		HomeBury, Ontario, Canada	
TITLE			
AISI 4140 / 4142 STEEL BAR			
PART NO.	MT-4140-B	REV	C
TOOL NO.			
UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES ± .100 TOLERANCES APPLY AFTER FINISHING			
INITIALS AND DATE DIMENSIONS ARE IN INCHES ± .100 TOLERANCES APPLY AFTER FINISHING	VM 12/1/2007	FRACTIONS: $\frac{1}{16}$, $\frac{1}{8}$, $\frac{1}{4}$, $\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, $\frac{7}{8}$	A
DESIGNED BY:	ML 02/1/2018	ANGLES: $\pm .5^\circ$	
DRAWN BY:	VM 02/1/2018	ROUGHNESS: $\pm .05$	
CHECKED BY:	DD 02/1/2018		
MFG REVIEW BY:	DD 02/1/2018		
APPROVED BY:	ML 02/1/2018		
SCALE: INTS			
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SHEET 1 OF 1			

1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |



2625, Boul. Jacques-Cartier Est
Longueuil (Québec) J4N 1L7

info@metauxsolutions.com
T 450 641-3330
Ext : 1-800-967-2003

CERTIFICAT D'ANALYSE

DART AEROSPACE LTD
1270, ABERDEEN STREET
HAWKESBURY, ONTARIO
K6A 1K7

20 févr. 18

Product Description

MSP12500
1-1/4 X 34 1/4" X 145 3/4"

ASTM A-829
DFARS Compliant

PLATE# : 424249B

Country of Origin SLOVENIA

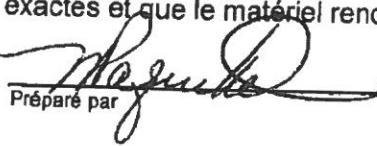
	Shipped Pcs	Back Ordred	PO LINE
	1.00	0.00	
PLATE 4140/42 PREH.			

PM HEAT# : 94492

BHN 310.00

ITEM 5: 10 X 6" X 12"
COMMANDÉ : 132578
REF : 38986

Métaux Solutions inc. certifie que les analyses sur ce document sont exactes et que le matériel rencontre les spécifications énumérées.


Préparé par

CERTIFICATE OF TEST

CERTIFICAT D'ESAI

Page 01 of 02

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

Certification Date
18-AUG-2017

43024-J

PART NUMBER/NUMÉRO DE PIÈCE

507340

Invoice Number
T369355

SOLD TO:
VENDU À: METAUX SOLUTIONS INC. SHIP TO:
EXPÉDIÉ À:
2625 BOUL JACQUES CARTIER EST
LONGUEUIL QC J4N 1L7

METAUX SOLUTIONS (RIVE-SUD)
2625 BOUL JACQUES CARTIER EST
LONGUEUIL QC J4N 1

Description: 4140/4142 CF ANN BAR
1 SO X 12' R/L
HEAT: SA894555

ITEM: 507340

ASTM A108
Line Total: 84 LB

Specifications:
ASTM A108 13

ASTM A331*

EN 10204 3.1

CHEMICAL ANALYSIS

C	MN	P	S	SI	CU	CR	NI
0.43	0.79	0.0090	0.019	0.28	0.02	1.0600	0.03
MO	AL						
0.18	0.015						

RCPT: R167824

COUNTRY OF ORIGIN : GERMANY

MECHANICAL PROPERTIES

DESCRIPTION	YLD STR	ULT TEN	%ELONG	%RED IN AREA	HARDNESS BHN
					168

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcris du certificat d'essai du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. Nous nous engageons à ce que le matériel couvert par ce rapport remplisse les exigences décrites ci-haut.

We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

The willful recording of false, fictitious, or fraudulent statements in connection with test results may be punishable as a felony under federal statutes. /Les informations fausses, fictives ou frauduleuses en rapport avec le résultat des essais sont punissables en vertu des lois fédérales.

Material did not come in contact with mercury while in our possession./Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES

MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

CERTIFICATE OF TEST CERTIFICAT D'ESAIIS

Page 02 of 02

Certification Date
18-AUG-2017

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

43024-J

PART NUMBER/NUMÉRO DE PIÈCE

507340

Invoice Number
T369355

SOLD TO: VENDU À:	METAUX SOLUTIONS INC.	SHIP TO: EXPÉDIÉ À:	METAUX SOLUTIONS (RIVE-SUD)
			2625 BOUL JACQUES CARTIER EST LONGUEUIL QC J4N 1L7
			2625 BOUL JACQUES CARTIER EST LONGUEUIL QC J4N 1

Description: 4140/4142 CF ANN BAR
1 SQ X 12' R/L
HEAT: SA894555
END-QUENCH HARDENABILITY (JOMINY - RC) IN
ITEM: 507340

1	2	3	4	5	6	7	8	9	10	12	14	16	18	22
58	57	56	56	55	55	53	52	51	50	47	45	43	42	40

ASTM A108
Line Total: 84 LB

GRAIN SIZE :5 -

MATERIAL IS FREE FROM MERCURY CONTAMINATION
NO WELD REPAIR PERFORMED ON MATERIAL

COMMENTS

*ASTM A331 WITHDRAWN, REPLACED BY ASTM A108

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Material did not come in contact with mercury while in our possession./Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES



MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

CERTIFICATE OF TEST CERTIFICAT D'ESAI

Page 01 of 02

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

Certification Date
9-FEB-2018

44141-J

PART NUMBER/NUMÉRO DE PIÈCE

506424

Invoice Number
S703350

SOLD TO: VENDU À:	METAUX SOLUTIONS INC. 2625 BOUL JACQUES CARTIER EST LONGUEUIL QC J4N 1L7	SHIP TO: EXPÉDIÉ À:	METAUX SOLUTIONS (RIVE-SUD) 2625 BOUL JACQUES CARTIER EST LONGUEUIL QC J4N 1
----------------------	--------------------------------------------------------------------------------	------------------------	------------------------------------------------------------------------------------

Description: 4140 4142 HR HT BAR STRESS FREE 269/321 BHN
7/8 RD X 20 RAL
HEAT: 75065013 Line Total: 43.3752 LB

ITEM: 506424

Specifications:

ASTM A193 GR B7 16
ASTM A29 15
JDM AO QL-2
ASTM A962 14

ASTM A434 GR BC 15
ASTM A304 11
ASTM A370 14

ASME SA193 GR B7
ASTM A255 10
ASTM A322 13

CHEMICAL ANALYSIS

C 0.42	MN 0.89	P 0.0090	S 0.029	SI 0.25	NI 0.19	CR 0.91	MO 0.17
CU 0.19	SN 0.0090	AL 0.028	V 0.003	CA 0.0012	NB 0.001	H 2.50	

RCPT: R218782

COUNTRY OF ORIGIN : USA

MECHANICAL PROPERTIES

DESCRIPTION	YLD STR KSI 136.0	ULT TEN KSI 147.0	%ELONG IN 02 IN 22.0	%RED IN AREA 60.0	HARDNESS BHN 295

GRAIN SIZE : 5 - 8

The above data were transcribed from the manufacturer's Certificate of Test after verification for completeness and specification requirements of the information on the certificate. All test results remain on file subject to examination. /Les informations ci-haut-mentionnées sont transcris du certificat d'essais du manufacturier après vérification de l'état complet des spécifications inscrites sur le certificat. We hereby certify that the material covered by this report will meet the applicable requirements described herein, including any specification forming a part of the description. /Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

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Material did not come in contact with mercury while in our possession./Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES

MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

CERTIFICATE OF TEST CERTIFICAT D'ESAI

Page 02 of 02

Certification Date
9-FEB-2018

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

44141-J

PART NUMBER/NUMÉRO DE PIÈCE

506424

Invoice Number
S703350

SOLD TO: VENDU À:	METAUX SOLUTIONS INC. 2625 BOUL JACQUES CARTIER EST LONGUEUIL QC J4N 1L7	SHIP TO: EXPÉDIÉ À:	METAUX SOLUTIONS (RIVE-SUD) 2625 BOUL JACQUES CARTIER EST LONGUEUIL QC J4N 1
----------------------	--------------------------------------------------------------------------------	------------------------	------------------------------------------------------------------------------------

Description: 4140/4142 HR HT BAR STRESS FREE 269/321 BHN
7/8 RD X 20' R/L Line Total: 43.3752 LB
HEAT: 75065013 ITEM: 506424
CLEANLINESS

A	B	C	D
THIN MAX	THICK MAX	THIN MAX	THICK MAX

8

STRAND CAST REDUCTION RATIO 113.2 TO 1
MATERIAL IS FREE FROM MERCURY CONTAMINATION
NO WELD REPAIR PERFORMED ON MATERIAL
THERMAL TREATMENT: OK
AUSTENITIZE 1640 DEG F FOR 50
QUENCH 88 DEG F DOR 20 WATER
TEMPER 1410 DEG F FOR .50
MACRO: OK
MICRO1: OK

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Material did not come in contact with mercury while in our possession./Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES



MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

CERTIFICATE OF TEST

CERTIFICAT D'ESAIIS

Page 01 of 02

Certification Date
16-FEB-2018

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

44141-J

PART NUMBER/NUMÉRO DE PIÈCE

506450

SOLD TO:	METAUX SOLUTIONS INC.	SHIP TO:	METAUX SOLUTIONS (RIVE-SUD)
VENDU À:		EXPÉDIÉ À:	
	2625 BOUL JACQUES CARTIER EST LONGUEUIL QC J4N 1L7		2625 BOUL JACQUES CARTIER EST LONGUEUIL QC J4N 1

Description: 4140/4142 HOT ROLL HT BAR
5/8" RD X 20' RL
HEAT: 75066727
ITEM: 506450

269/321 BHN A
Line Total: 20.88 LB

Specifications:
ASTM A193 GR B7 01 ASME SA193 GR B7 ASTM A434 CL BC 90A

CHEMICAL ANALYSIS

C	MN	P	S	SI	NI	CR	MO
0.42	0.85	0.012	0.0180	0.23	0.13	1.01	0.16
AL	CU	V	CB				
0.0180	0.24	0.003	0.002				

RCPT: R259594

COUNTRY OF ORIGIN : USA

MECHANICAL PROPERTIES

DESCRIPTION	YLD STR PSI	ULT TEN PSI	%ELONG IN 02 IN	%RED IN AREA	HARDNESS BHN
	127000.0	148000.0	20.4	72.0	273

GRAIN SIZE : 5 - 8

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Material did not come in contact with mercury while in our possession./Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES



MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ

CERTIFICATE OF TEST CERTIFICAT D'ESAI

Page 02 of 02

Certification Date
16-FEB-2018

CUSTOMER ORDER NUMBER
NUMÉRO DE COMMANDE DU CLIENT

44141-J

PART NUMBER/NUMÉRO DE PIÈCE

506450

Invoice Number
T375959

SOLD TO:	METAUX SOLUTIONS INC.	SHIP TO:	METAUX SOLUTIONS (RIVE-SUD)
VENDU À:	EXPÉDIÉ À:		
	2625 BOUL JACQUES CARTIER EST LONGUEUIL QC J4N 1L7		2625 BOUL JACQUES CARTIER EST LONGUEUIL QC J4N 1

Description: 4140/4142 HOT ROLL HT BAR
5/8 RD X 20' R/L
HEAT: 75066727

ITEM: 506450

269/321 BHN A
Line Total: 20.88 LB

MATERIAL IS FREE FROM MERCURY CONTAMINATION
NO WELD REPAIR PERFORMED ON MATERIAL
THERMAL TREATMENT: OK
AUSTENIZE 1630F .60
WATER QUENCH
TEMPER 1395F .60
MACRO: OK
MICRO1: OK

COMMENTS

ACCEPTED FOR 1E0509 PN 169-6969 MP PER BSH 7-21-17

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Material did not come in contact with mercury while in our possession./Par les présentes, nous certifions que le matériel couvert par ce rapport rencontre les spécifications décrites ci-haut.

JOANNE DESPRES



MANAGER QUALITY ASSURANCE
GÉRANT DE L'ASSURANCE QUALITÉ